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| FORM PTO-1449 (Modified) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. 06316D1 USA | SERIAL NO. |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | APPLICANT Paul Higginbotham et al. | |
| | | FILING DATE | GROUP |

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

| EXAM- INER INITIAL | DOCUMENT NUMBER | | | | | | | | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|--------------------------|-----------------|---|---|---|---|---|---|--|------------|-------------------------|-------|----------|-------------------------------|
| | 4 | 8 | 0 | 5 | 4 | 1 | 2 | | 02/21/1989 | Colley, deceased et al. | 62 | 22 | |
| | 5 | 0 | 3 | 9 | 5 | 0 | 0 | | 08/13/1991 | Shino et al. | 423 | 262 | |
| | 5 | 8 | 3 | 3 | 7 | 3 | 7 | | 11/10/1998 | Tamura et al. | 95 | 98 | |
| | 5 | 9 | 1 | 3 | 8 | 9 | 3 | | 06/22/1999 | Gary et al. | 62 | 636 | |
| | 6 | 3 | 7 | 8 | 3 | 3 | 3 | | 04/30/2002 | Dray | 62 | 648 | |
| | 6 | 3 | 0 | 1 | 9 | 2 | 9 | | 10/16/2001 | Lochner | 62 | 643 | |
| | 3 | 1 | 9 | 1 | 3 | 9 | 3 | | 06-1965 | Dennis | 62 | 648 | |
| | 3 | 7 | 5 | 1 | 9 | 3 | 4 | | 08-1973 | Frischbier, Klaus | 62 | 653 | |
| | 3 | 7 | 7 | 9 | 0 | 2 | 8 | | 12-1973 | Schuftan et al. | 62 | 648 | |
| | 4 | 2 | 7 | 7 | 3 | 6 | 3 | | 07-1981 | Duhayon et al. | 588 | 1 | |
| | 4 | 5 | 6 | 8 | 5 | 2 | 8 | | 02-1986 | Cheung, Harry | 423 | 262 | |
| | 4 | 5 | 7 | 4 | 0 | 0 | 6 | | 03-1986 | Cheung, Harry | 62 | 648 | |
| | 5 | 0 | 3 | 9 | 5 | 0 | 0 | | 08-1991 | Shino et al. | 423 | 262 | |

FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | | | | | | | | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|-----------------|---|---|---|---|---|---|---|------------|---------|-------|----------|-------------|----|
| | | | | | | | | | | | | | YES | NO |
| | 1 | 9 | 8 | 5 | 5 | 4 | 8 | 5 | 10.6.99 | Germany | F25J | 3/04 | | X |
| | 0 | 9 | 0 | 0 | 2 | 8 | 0 | 8 | 01.04.1997 | Japan | C01B | 23/00 | | X |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| | | Research Disclosure Sept 1999, Publication No. 42517, Page 1158, "Crude Krypton/Xenon Recovery from a Pumped LOX AUS Cycle", Disclosed Anonymously |
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